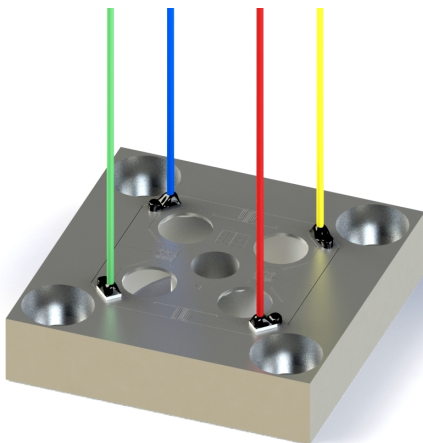


# S415

## Load Cell



The S415 low-profile button load cell uses high technology sputtered thin film strain gauge to create a compact, rugged sensor with exceptional long-term stability. It is ideal for the measurement of tensile or compressive forces in applications where space is at a premium.

The S415 is available in a number of force ranges, providing a convenient means of monitoring forces in a wide range of situations.

Long-term stability, simple mounting configuration and low combined errors make the S415 an excellent choice for applications where reliable and stable long-term performance is required.

Custom characteristics can be provided for high-volume OEM users.

### Applications:

- Medical Instrumentation
- Force Gauges
- Weighing Platforms
- Medical Scales

### Special Features:

- Thin-film Strain Gauge
- Low Power Consumption
- Long Term Stability
- Low Hysteresis

### Key Specifications:

- 10kΩ Bridge
- 1.25 mV/V nominal output
- Up to 1000% Safe Overload

Product Specification:									
Ranges:		0.25, 0.5, 1, 2.5, 5, 10, 25 & 50 Kg [Enquire for other ranges]							
Maximum Load (Safe):		Up to 200% FSO [At centre loading point]							
Bridge Configuration:		4-wire Full Bridge							
Bridge Resistance:		10000 Ω							
Recommended Excitation Voltage:		10 V dc/ac (20 V max)							
Insulation Resistance:		1 GΩ @ 50 V dc							
Full Scale Output (FSO)		1.250 mV/V nominal							
Deflection at Rated Range [All values Nominal]	Range [KG]	0.25	0.5	1	2.5	5	10	25	50
	Deflection [mm]	0.021	0.016	0.015	0.021	0.017	0.014	0.018	0.015
Zero Balance:		±0.2 mV/V							
Repeatability:		±0.050% FSO							
Linearity:		±0.060% - ±0.060% FSO [Range dependent]							
Hysteresis:		±0.080% FSO							
Temperature Effect on Zero:		±0.6µV/V/°C [Tighter tolerances available]							
Temperature Effect on Span:		0.035 ±0.010% Reading/°C [Tighter tolerances available]							
Operating Temperature:		-40 to +140°C							
Body Material:		17-4PH Stainless Steel / Aluminium							
Cable:		Customer Specific							

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### Schematic dimensions in mm [inches]:

